

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

1. (Canceled)

2. (Currently amended) The process of claim 10 or 42, wherein the sequence encoding the 2-DOG-6-P phosphatase is selected from the group consisting of:

(a) a DNA sequence which encodes the amino acid sequence of SEQ ID NO: 2;

(b) a DNA sequence of SEQ ID NO: 1;

(c) a DNA sequence which ~~hybridizes in 6 x SSC~~ under 55 °C remains hybridized under wash conditions of 20 minutes at 55 °C in 6 x SSC, 0.1% SDS and 20 minutes at 55 °C in 4 x SSC, 0.1% SDS to a complementary strand of the DNA sequence of (a) or (b) and which encodes a polypeptide having 2-DOG-6-P phosphatase activity;

~~(d) a DNA sequence which is degenerate to the DNA sequence of (b) or (c); and~~

~~(e)~~ (d) a DNA sequence encoding a polypeptide having an amino acid sequence that is at least 90% identical to the amino acid sequence of SEQ ID NO: 2 and having 2-DOG-6-P phosphatase activity.

3. (Previously presented) The process of claim 2, wherein the DNA sequence is obtained from yeast.

4. (Previously presented) The process of claim 10 or 42, wherein the promoter is a 35S CaMV promoter.

5. (Canceled)

6. (Canceled)

7. (Currently amended) The process of claim 42, wherein the ~~second~~ further recombinant DNA ~~sequence~~molecule encodes a peptide, protein, antisense-RNA or sense-RNA, viral RNA or ribozyme.

8. (Canceled)

9. (Canceled)

10. (Previously presented) A process for selecting a transformed plant cell, comprising the following steps:

- (a) obtaining a plant cell;
- (b) introducing a DNA sequence comprising a promoter active in plants and a sequence encoding a 2-deoxyglucose-6-phosphate (2-DOG-6-P) phosphatase operably linked thereto, or a vector comprising said DNA sequence into said plant cell, under conditions that allow expression of the 2-DOG-6-P phosphatase; and
- (c) selecting the successfully transformed plant cell on 2-deoxyglucose-containing media.

11. (Previously presented) The process of claim 10 or 42, wherein the vector is transferred to the plant cell via *Agrobacterium tumefaciens*.

12. (Previously presented) The process of claim 10 or 42, wherein the DNA sequence or vector is transferred to the plant cell by particle bombardment.

13-20. (Canceled)

21. (Currently amended) The process of claim 10 or 42, wherein the DNA sequence further comprises a regulatory sequence selected from the group consisting of a transcription termination sequence and, a polyadenylation signal, or both, wherein said regulatory sequence is operably linked to the DNA sequence encoding said 2-deoxyglucose-6-phosphate phosphatase.

22. (Previously presented) The process of claim 2, wherein the DNA sequence encodes the amino acid sequence of SEQ ID NO: 2.

23. (Previously presented) The process of claim 2, wherein the DNA sequence is SEQ ID NO: 1.

24-41. (Canceled)

42. (Currently amended) A process for selecting a transformed plant cell, comprising the following steps:

(a) obtaining a plant cell;

(b) introducing into said plant cell, under conditions that allow expression of 2-DOG-6-P phosphatase, a DNA sequence selected from the group consisting of:

(i) a recombinant DNA sequence comprising a promoter active in plants and a sequence encoding a 2-deoxyglucose-6-phosphate (2-DOG-6-P) phosphatase operably

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linked thereto, and a ~~second~~ further recombinant DNA molecule
sequence;

ii) a vector comprising said recombinant
DNA sequence and said further recombinant DNA sequence; and

iii) a first vector comprising said
recombinant DNA sequence and a second vector comprising said
further recombinant DNA sequence; and

(c) selecting the successfully transformed
plant cell on a 2-deoxyglucose-containing media.

43. (Canceled)